00 09/911,888

TOTAL

Welcome to STN International! Enter x:x

LOGINID:ssspta1600gxh

PASSWORD:

THIS LOGINID IS CURRENTLY IN USE.

DO YOU WISH TO RESUME THE PREVIOUS SESSION? Y/(N)/?:Y

THE PREVIOUS SESSION IS BEING DISCONNECTED.
PLEASE LOG IN AGAIN TO BE RECONNECTED.
SYSTEM LOGOFF AT 16:53:35 ON 29 APR 2003 US EASTERN TIME

Connection closed by remote host

A new logon attempt will be made when this window closes. If you chose to RESUME PREVIOUS SESSION, then continue with the logon process as normal. If not, choose Cancel or <ESC> to interrupt the logon process.

Commerical Database access on COM server not responding.

STNLOGON timed out

Welcome to STN International! Enter x:x

LOGINID:sssptal600gxh

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * * SESSION RESUMED IN FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' AT 16:56:26 ON 29 APR 2003
FILE 'CAPLUS' ENTERED AT 16:56:26 ON 29 APR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
FILE 'CABA' ENTERED AT 16:56:26 ON 29 APR 2003
COPYRIGHT (C) 2003 CAB INTERNATIONAL (CABI)
FILE 'AGRICOLA' ENTERED AT 16:56:26 ON 29 APR 2003
FILE 'BIOSIS' ENTERED AT 16:56:26 ON 29 APR 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)
COST IN U.S. DOLLARS

SINCE FILE

FULL ESTIMATED COST ENTRY SESSION 78.12 81.13

=> d his

(FILE 'HOME' ENTERED AT 16:26:41 ON 29 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 16:26:54 ON 29 APR 2003

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 16:27:17 ON 29 APR 2003
10 S IRREVERSIBLE RECOMB?

22 S C31 INTEGRASE => d 1-22 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS 2003:152012 CAPLUS ΑN Site-specific cassette exchange and germline transmission with mouse ES TIcells expressing .PHI.C31 integrase Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras ΑU Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, ON, CS M5G 1X5, Can. Nature Biotechnology (2003), 21(3), 321-324 SO CODEN: NABIF9; ISSN: 1087-0156 PΒ Nature Publishing Group Journal DТ English LA THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 22 ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS L2 AN2002:814310 CAPLUS DN137:321289 TIExpression systems to produce DNA minicircle lacking bacterial vector sequences from parent plasmid for gene therapy Bigger, Brian W.; Tolmachov, Oleg; Coutelle, Charles Imperial College Innovations Limited, UK SO PCT Int. Appl., 70 pp. CODEN: PIXXD2 DT Patent LAEnglish FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ______ ______ WO 2002-GB1668 20020410 WO 2002083889 A2 20021024 PΙ W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2002-118231 20020409 US 2003005478 A1 20030102 PRAI GB 2001-8968 Α 20010410 US 2001-327029P Р 20011005 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS L_2 2002:754598 CAPLUS AN DN 137:274083 Autonomously-replicating amplifiable vectors for transformation of plant TI cells and site-specific integration of transgenes Klimyuk, Victor; Gleba, Yuri; Marillonnet, Sylvestre IN Icon Genetics Ag, Germany; Icon Genetics, Inc. PA SO PCT Int. Appl., 74 pp. CODEN: PIXXD2 Patent DT LA English

PI WO 2002077246 A2 20021003 WO 2002-EP3266 20020322 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

APPLICATION NO. DATE

KIND DATE

FAN.CNT 1

PATENT NO.

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                                             DE 2001-10114209 20010323
                             20021205
     DE 10114209
                      A1
PRAI DE 2001-10114209 A
                             20010323
     ANSWER 4 OF 22 CAPLUS COPYRIGHT 2003 ACS
     2002:745860 CAPLUS
AN
DN
     138:85859
     Stable nonviral genetic correction of inherited human skin disease
ΤI
     Ortiz-Urda, Susana; Thyagarajan, Bhaskar; Keene, Douglas R.; Lin, Qun;
     Fang, Min; Calos, Michele P.; Khavari, Paul A.
     Stanford University School of Medicine, Stanford, CA, USA
CS
     Nature Medicine (New York, NY, United States) (2002), 8(10), 1166-1170
SO
     CODEN: NAMEFI; ISSN: 1078-8956
     Nature Publishing Group
DΤ
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     English
LA
RE.CNT 26
               THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L2
     ANSWER 5 OF 22 CAPLUS COPYRIGHT 2003 ACS
     2002:489195 CAPLUS
AN
     137:258122
DN
     Enhanced efficiency through nuclear localization signal fusion on phage
ΤI
     .PHI.C31-integrase: activity comparison with Cre and
     FLPe recombinase in mammalian cells
     Andreas, Susanne; Schwenk, Frieder; Kuter-Luks, Birgit; Faust, Nicole;
ΑU
     Kuhn, Ralf
CS
     Artemis Pharmaceuticals GmbH, Koln, 51063, Germany
SO
     Nucleic Acids Research (2002), 30(11), 2299-2306
     CODEN: NARHAD; ISSN: 0305-1048
     Oxford University Press
PB
DT
     Journal
     English
LA
              THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 36
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L_2
AN
     2002:368516 CAPLUS
DN
     136:381344
     Recombinase-nuclear localization signal fusion and its use for DNA
     recombination in cells or organisms
IN
     Kuehn, Ralf; Felder, Susanne; Schwenk, Frieder; Kueter-Luks, Birgit;
     Faust, Nicole
PA
     Artemis Pharmaceuticals G.m.b.H., Germany
     PCT Int. Appl., 150 pp.
SO
     CODEN: PIXXD2
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LA
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PΤ
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                                                             20011109
PRAI EP 2000-124629
                             20001110
                        Α
     EP 2001-109543
                        Α
                             20010417
     US 2001-311876P
                        Ρ
                             20010813
     WO 2001-EP12975
                             20011109
L2
     ANSWER 7 OF 22 CAPLUS COPYRIGHT 2003 ACS
NΑ
     2002:364022 CAPLUS
DN
     136:381377
ΤI
     Integrase carrying signal peptide for site-specific recombination
     Kuehn, Ralf; Felder, Susanne; Schwenk, Frieder; Kueter-Luks, Birgit;
IN
     Faust, Nicole
PΑ
     Artemis Pharmaceuticals G.m.b.H., Germany
     Eur. Pat. Appl., 54 pp.
SO
     CODEN: EPXXDW
דת
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LA
     English
FAN.CNT 2
     PATENT NO.
                     KIND DATE
                                            APPLICATION NO. DATE
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     EP 1205490 A1 20020515 EP 2000-124629 20001110
PΙ
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                      A2 20020516
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
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                       A5
     AU 2002021829
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RE.CNT 5
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 8 OF 22 CAPLUS COPYRIGHT 2003 ACS
L2
AN
     2002:355879 CAPLUS
DN
     137:105514
TI
     Diversity in the serine recombinases
AU
     Smith, Margaret C. M.; Thorpe, Helena M.
     Institute of Genetics, Queens Medical Centre, University of Nottingham,
CS
     Nottingham, NG7 2UH, UK
     Molecular Microbiology (2002), 44(2), 299-307
SO
     CODEN: MOMIEE; ISSN: 0950-382X
PB
     Blackwell Science Ltd.
DT
     Journal; General Review
LA
     English
RE.CNT 61
              THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
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1.2
     ANSWER 9 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN
     2002:67139 CAPLUS
DN
     137:2397
ΤI
     Directed evolution of a recombinase for improved genomic integration at a
     native human sequence
ΑU
     Sclimenti, Christopher R.; Thyagarajan, Bhaskar; Calos, Michele P.
CS
     Department of Genetics, Stanford University School of Medicine, Stanford,
     CA, 94305-5120, USA
SO
     Nucleic Acids Research (2001), 29(24), 5044-5051
     CODEN: NARHAD; ISSN: 0305-1048
PB
     Oxford University Press
DT
     Journal
     English
LA
RE.CNT 29
              THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
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     ANSWER 10 OF 22 CAPLUS COPYRIGHT 2003 ACS
L2
AN
     2001:826441 CAPLUS
     136:364415
DN
ΤI
     Phage R4 integrase mediates site-specific integration in human cells
ΑU
     Olivares, Eric C.; Hollis, Roger P.; Calos, Michele P.
CS
     Department of Genetics, Stanford University School of Medicine, Stanford,
     CA, 94305-5120, USA
SO
     Gene (2001), 278(1-2), 167-176
     CODEN: GENED6; ISSN: 0378-1119
PB
     Elsevier Science B.V.
DT
     Journal
LA
     English
RE.CNT 20
              THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L2
     ANSWER 11 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN
     2001:630281 CAPLUS
DN
     136:227747
ΤI
     Gene insertion and replacement in Schizosaccharomyces pombe mediated by
     the Streptomyces bacteriophage .phi.C31 site-specific recombination system
ΑU
     Thomason, L. C.; Calendar, R.; Ow, D. W.
CS
     Department of Molecular and Cell Biology, University of California,
     Berkeley, CA, 94720-3202, USA
SO
     Molecular Genetics and Genomics (2001), 265(6), 1031-1038
     CODEN: MGGOAA; ISSN: 1617-4615
PB
     Springer-Verlag
DT
     Journal
LA
     English
RE.CNT 26
              THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L2
     ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN
     2001:618208 CAPLUS
DN
     135:191258
ΤI
     Methods for preparing altered recombinases for genome modification
     Calos, Michele P.; Sclimenti, Christopher R.
IN
PĄ
     The Board of Trustees of the Leland Stanford Junior University, USA
SO
     PCT Int. Appl., 100 pp.
     CODEN: PIXXD2
DT
     Patent
LA
    English
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO. DATE
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PΙ
     WO 2001061049
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PRAI US 2000-183759P
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RE.CNT 7
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L2
      ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS
      2001:411353 CAPLUS
AN
DN
      136:96878
      Site-specific genomic integration in mammalian cells mediated by phage
TI
      .phi.C31 integrase
      Thyaqarajan, Bhaskar; Olivares, Eric C.; Hollis, Roger P.; Ginsburg,
ΑU
      Daniel S.; Calos, Michele P.
CS
      Department of Genetics, Stanford University School of Medicine, Stanford,
      CA, 94305-5120, USA
      Molecular and Cellular Biology (2001), 21(12), 3926-3934
SO
      CODEN: MCEBD4; ISSN: 0270-7306
PB
      American Society for Microbiology
DT
      Journal
      English
                THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 28
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
      ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS
L2
      2001:78496 CAPLUS
AN
DN
      134:126852
TI
      DNA recombination in eukaryotic cells by the bacteriophage phiC31
      recombination system
ΤN
      Ow, David W.; Calendar, Richard; Thomason, Lynn
      The Regents of the University of California, USA; United States Dept. of
PA
      Agriculture
SO
      PCT Int. Appl., 52 pp.
      CODEN: PIXXD2
DT
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LA
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FAN.CNT 1
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                                                  WO 2000-US19983 20000721
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      WO 2001007572
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          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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WO 2000-US19983

W

20000721

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AN
     2000:805953 CAPLUS
DN
     134:97109
TТ
     Control of directionality in the site-specific recombination system of the
     Streptomyces phage .phi.C31
ΑÜ
     Thorpe, Helena M.; Wilson, Stuart E.; Smith, Margaret C. M.
CS
     Institute of Genetics, Queens Medical Centre, University of Nottingham,
     Nottingham, NG7 2UH, UK
SO
     Molecular Microbiology (2000), 38(2), 232-241
     CODEN: MOMIEE; ISSN: 0950-382X
PB
     Blackwell Science Ltd.
DT
     Journal
     English
LA
RE.CNT 41
              THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L2
     ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN
     2000:392815 CAPLUS
DN
     133:306122
TI
     A phage integrase directs efficient site-specific integration in human
     cells
AIJ
     Groth, Amy C.; Olivares, Eric C.; Thyagarajan, Bhaskar; Calos, Michele P.
CS
     Department of Genetics, Stanford University School of Medicine, Stanford,
     CA, 94305-5120, USA
     Proceedings of the National Academy of Sciences of the United States of
SO
     America (2000), 97(11), 5995-6000
     CODEN: PNASA6; ISSN: 0027-8424
PB
     National Academy of Sciences
DT
     Journal
LA
     English
RE.CNT 18
              THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L2
     ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS
AN
     2000:145009 CAPLUS
DN
     132:204039
     Methods and compositions for genomic modification by site-specific
TI
     integration
IN
     Calos, Michele P.
PA
     The Board of Trustees of the Leland Stanford Junior University, USA
SO
     PCT Int. Appl., 125 pp.
     CODEN: PIXXD2
DT
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LA
FAN.CNT 1
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RE.CNT 4
              THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L2
     ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS
     1998:311758 CAPLUS
AN
DN
     129:78359
     In vitro site-specific integration of bacteriophage DNA catalyzed by a
TI
     recombinase of the resolvase/invertase family
AU
     Thorpe, Helena M.; Smith, Margaret C. M.
```

ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS

L2

- CS Department of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK
- SO Proceedings of the National Academy of Sciences of the United States of America (1998), 95(10), 5505-5510
 CODEN: PNASA6; ISSN: 0027-8424
- PB National Academy of Sciences
- DT Journal
- LA English
- RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L2 ANSWER 19 OF 22 CABA COPYRIGHT 2003 CABI
- AN 2002:66650 CABA
- DN 20023022973
- TI Site-specific genomic integration in mammalian cells mediated by phage phi C31 integrase
- AU Thyagarajan, B.; Olivares, E. C.; Hollis, R. P.; Ginsburg, D. S.; Calos, M. P.
- CS Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120, USA.
- SO Molecular and Cellular Biology, (2001) Vol. 21, No. 12, pp. 3926-3934. 28 ref.
 - ISSN: 0270-7306
- DT Journal
- LA English
- L2 ANSWER 20 OF 22 CABA COPYRIGHT 2003 CABI
- AN 2001:121102 CABA
- DN 20013116946
- TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophage phi C31 site-specific recombination system
- AU Thomason, L. C.; Calendar, R.; Ow, D. W.
- CS Department of Molecular and Cell Biology, University of California, Berkeley, CA 94720-3202, USA.
- SO Molecular Genetics and Genomics, (2001) Vol. 265, No. 6, pp. 1031-1038. 26 ref.
 - ISSN: 1617-4615
- DT Journal
- LA English
- L2 ANSWER 21 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- AN 2003:153841 BIOSIS
- DN PREV200300153841
- TI Site-specific cassette exchange and germline transmission with mouse ES cells expressing phiC31 integrase.
- AU Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras (1)
- CS (1) Samuel Lunenfeld Research Institute, Mount Sinai Hospital, 600 University Avenue, Toronto, ON, M5G 1X5, Canada: nagy@mshri.on.ca Canada
- SO Nature Biotechnology, (March 2003, 2003) Vol. 21, No. 3, pp. 321-324. print.
 - ISSN: 1087-0156.
- DT Article
- LA English
- L2 ANSWER 22 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- AN 2001:515058 BIOSIS
- DN PREV200100515058
- TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophagevariant phiC31 site-specific recombination system.
- AU Thomason, L. C.; Calendar, R.; Ow, D. W. (1)
- CS (1) Plant Gene Expression Center, Department of Plant and Microbial Biology, U.S. Department of Agriculture, University of California, 800 Buchanan St., Albany, CA, 94710: ow@pgec.ars.usda.gov USA

SO MGG Molecular Genetics and Genomics, (August, 2001) Vol. 265, No. 6, pp. 1031-1038. print. ISSN: 1617-4615.

DT Article

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LA English

SL English

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L1

(FILE 'HOME' ENTERED AT 16:26:41 ON 29 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 16:26:54 ON 29 APR 2003

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 16:27:17 ON 29 APR 2003

10 S IRREVERSIBLE RECOMB?

L2 22 S C31 INTEGRASE

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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 6551828 B1

L2: Entry 1 of 9

File: USPT

Apr 22, 2003

US-PAT-NO: 6551828

DOCUMENT-IDENTIFIER: US 6551828 B1

TITLE: Compositions and methods for generating expression vectors through

site-specific recombination

DATE-ISSUED: April 22, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Clark; Robin

Benicia

CA

US-CL-CURRENT: 435/462; 435/455, 435/471, 435/7.21, 435/7.31, 435/7.32

Fig. Title (Cdation) Front | Remem Classification | Cate : Reference | Sequences | Attachine to Claims | Finis | Grain (Fest | Image

L2: Entry 2 of 9

File: USPT

Aug 7, 2001

US-PAT-NO: 6270969

DOCUMENT-IDENTIFIER: US 6270969 B1

TITLE: Recombinational cloning using engineered recombination sites

DATE-ISSUED: August 7, 2001

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Hartley; James L. Brasch; Michael A.

Frederick Gaithersburg

MD MD

US-CL-CURRENT: 435/6; 435/320.1, 435/462, 536/23.1, 536/24.1

Full Title I dation Front Review Claim, distriction Cate Reference Sequence: Attachments Claim, Finh, Graw Gess, Income

3. Document ID: US 6174708 B1

L2: Entry 3 of 9

File: USPT

Jan 16, 2001

US-PAT-NO: 6174708

DOCUMENT-IDENTIFIER: US 6174708 B1

TITLE: Preparation of a multicombinatorial library of antibody gene expression vectors

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sodoyer; Regis Saint Foy les Lyon FR
Aujame; Luc Fleurieux sur l'Arbresle FR
Geoffroy; Frederique Bessenay FR
Bouchardon; Annabelle Lyons FR

US-CL-CURRENT: 435/91.1; 435/477, 435/488

Full / Title | Litation | Front | Review | Flaratication | Date | Reterence | Sequences : Attachments

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4. Document ID: US 6171861 B1

L2: Entry 4 of 9

File: USPT

Jan 9, 2001

US-PAT-NO: 6171861

DOCUMENT-IDENTIFIER: US 6171861 B1

** See image for Certificate of Correction **

TITLE: Recombinational cloning using engineered recombination sites

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hartley; James L. Frederick MD Brasch; Michael A. Gaithersburg MD

US-CL-CURRENT: $\underline{435}/\underline{455}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{462}$, $\underline{435}/\underline{465}$, $\underline{530}/\underline{350}$, $\underline{536}/\underline{23.1}$, $\underline{536}/\underline{24.1}$

Full | Little : citation | Front : Remem | Classification | Class | Reference | Sequence | Attachments | Finds | Craw Cess : Image

5. Document ID: US 6143557 A

L2: Entry 5 of 9

File: USPT

Nov 7, 2000

US-PAT-NO: 6143557

DOCUMENT-IDENTIFIER: US 6143557 A

TITLE: Recombination cloning using engineered recombination sites

DATE-ISSUED: November 7, 2000

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hartley; James L. Frederick MD Brasch; Michael A. Gaithersburg MD

US-CL-CURRENT: 435/320.1; 435/325, 536/23.1, 536/24.1

Full Title Chation Front Remend Clarification Date Reference Sequence: Attachment:

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☐ 6. Document ID: US 5888732 A

L2: Entry 6 of 9

File: USPT

Mar 30, 1999

US-PAT-NO: 5888732

DOCUMENT-IDENTIFIER: US 5888732 A

** See image for Certificate of Correction **

TITLE: Recombinational cloning using engineered recombination sites

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Hartley; James L.

Frederick

MD

Brasch; Michael A. Gaithersburg MD

US-CL-CURRENT: 435/6; 435/320.1, 435/91.42, 536/23.1, 536/24.2

Full Title Citation Front Review Classification Dute Reference Sequences Attachments

Full Travellero Image

☐ 7. Document ID: US 5425044 A

L2: Entry 7 of 9

File: USPT

Jun 13, 1995

US-PAT-NO: 5425044

DOCUMENT-IDENTIFIER: US 5425044 A

TITLE: Compact, burst mode, pulsed, high energy, blowdown flow photolytic atomic

iodine laser

DATE-ISSUED: June 13, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Schlie; LaVerne A.

Albuquerque

Dimiduk; David P.

Albuquerque

NM NM

Masson; Bruce S.

Albuquerque

NM

US-CL-CURRENT: 372/55; 372/70

Full | Title | Litation | Front | Review | Classification | trate | Reference | Sequences | Attachments

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3. Document ID: US 5369660 A

L2: Entry 8 of 9

File: USPT

Nov 29, 1994

US-PAT-NO: 5369660

DOCUMENT-IDENTIFIER: US 5369660 A

TITLE: Repetitively pulsed, closed cycle, photolytic atomic iodine laser

9

DATE-ISSUED: November 29, 1994

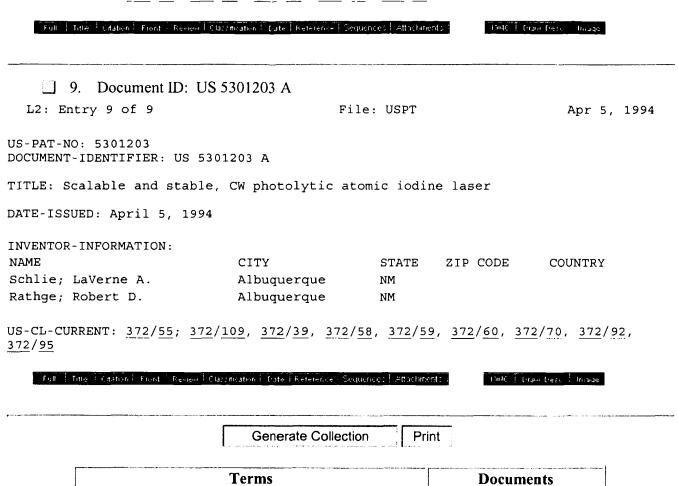
irreversible adj recomb\$

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Schlie; LaVerne A. Albuquerque NM Rathge; Robert D. Albuquerque NM

US-CL-CURRENT: 372/55; 372/58, 372/59, 372/61, 372/89



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L4: Entry 13 of 13

File: USPT

Jul 13, 1993

DOCUMENT-IDENTIFIER: US 5227288 A

TITLE: DNA sequencing vector with reversible insert

Abstract Text (1):

A sequencing vector based on the M13 phage vector is disclosed which is particularly adapted for use in large scale DNA sequencing procedures. The vector includes a vector unique restriction site flanked by recognition sites, attP and attB, for the site specific recombination as catalyzed by a site specific recombination agent, Lambda integrase. Using the vector, which incorporates the capability from M13 to replicate single stranded DNA for dideoxynucleotide sequencing, single stranded DNA of either strand may be selectively created since the orientation of any insert into the restriction site can readily be reversed by exposure of the vector to the recombination agent. This capability is particularly useful in large scale semi-random DNA sequencing in which the ability to selectively produce opposite strands is useful in filling gaps or ambiguities in large sequences.

Detailed Description Text (6):

The recombination recognition sites used in the subject vector are preferably the attachment sites for a protein known as lambda integrase. Lambda integrase is an enzyme encoded by the bacteriophage lambda that directs insertion of the native phage DNA into the chromosome of a bacteria infected by the bacteriophage, such as E.coli, by site specific recombination. The enzyme recognizes specific sites on both the phage, and on the bacterial chromosome, so that a site specific recombination, or integration, of the phage DNA into the E.coli chromosome is directed by the protein. The attachment site on the phage is known as attP, while the attachment site on the bacteria is referred to as attB. Although the attB site is actually in the genome of the bacteria rather than the phage, it is occasionally referred to as associated with the lambda phage. In the presence of the lambda integrase protein, the attachment site attB is split, as is the attachment site attP, creating complementary ends which are then welded together in a site specific recombination event. The new sites created by this recombinant event are referred to as attL and attR, represent the left and right borders of the inserted DNA sequence. All the steps of the integration reaction are coupled, in the sense that all four strands are cut, exchanged, and re-ligated without any stable intermediates appearing. The attP site and attB sites are unequal in size and complexity. The attP site is much larger and contains more binding sites to the enzyme. The minimal attB site is much smaller and may be reduced to a 15 base pair core. The identification of the sites and an analysis of the mechanism of this recombinant event may be found in Hsu, et al., Nature, 285, pp. 85-91 (1980).

Detailed Description Text (7):

While the <u>lambda integrase</u> recombinant system is described herein, with attP and attB as the recognition sites and <u>lambda integrase</u> as the recombination agent, other systems for site specific recombination may also be usable within the vector of the present invention. Other possible genetic recombination systems include those based on the hin (from Salmonella)-gin (from bacteriophage mu), flp (from the 2 micron circle of yeast), and the att80 system of phage Phi80. The requirement of such alternative systems is that the recombinant event be site specific and predictable, and that the recombinant agent be convenient.

Detailed Description Text (8):

Thus the sequencing vector of the present invention allows for either of two strands of a target DNA sequence to be selectively replicated in cells in culture. By insertion of the unknown target DNA sequence into the sequencing vector of the present invention, and in the absence of the lambda integrase protein, the sequencing vector will be efficient in creating single-stranded DNA of one of the two possible orientations of the inserted target DNA sequence. Primer directed generation of a complementary strand from adjacent the insertion then permits sequencing the inserted target DNA in one orientation. By then exposing the sequencing vector to the lambda integrase protein, either by in vitro chemical reaction or by transfection into an appropriate host capable of manufacturing the integrase protein, the site specific recombination event occurs, and the target DNA sequence is flipped in orientation within the vector. Then reverse primer extension under the same conditions as before would result in a complementary DNA to the opposite strand of the target DNA sequence and beginning at the opposite end. In this way, single-stranded DNA from either strand of the target DNA sequence can selectively and conveniently be created. The vectors having the inserted target DNA sequence in either orientation are stable, and can be stored or manipulated as desired. While this inversion feature of the vector makes the vector particularly suited for dideoxynucleotide sequencing, it is to be understood that other sequencing techniques are possible as well.

Detailed Description Text (20):

To conveniently utilize the Janus construction, a pair of bacterial hosts were selected, one having and one not having the capability of conditioning the expression of the phage lambda_integrase. The particular host used was JM101:sup, thi, delta(lac-proAB) [F', traD36, proAB, lacI.sup.q Z.DELTA.M25]. The second bacterial host utilized was JM101p(Int) which is the same E.coli JM101 carrying therein the plasmid pHS3-1, which was constructed by Gardner as described in J. Bact., 172, pages 1529-1538 (1990). The plasmid pHS3-1 carries the lambda_integrase gene driven by a hybrid Trp-Lac promoter referred to as Ptac. The resulting hybrid promoter is induced by iso-propyl-thio-galactoside (IPTG), so that the cell is competent to carry out site specific recombination by expression of the lambda integrase protein upon the induction by addition to the media of IPTG.

Detailed Description Text (30):

The Janus phage vector thus created has the capability of actuating an inversion of a DNA segment contained within the vector in the form of a site specific integrase recombination of sites contained within the vector. The actual cross-over sites are contained at base pairs 6081-6087 in the attP site, and base pairs 6668-6674 in the attB site, which are seven base inverted repeats that form the actual cross-over site for lambda integrase mediated site specific recombination. Since these sites are placed in the vector in inverse orientation relative to each other, the initiation of lambda integrase recombination of a vector results in the complete inversion of the orientation of all the DNA placed between these sites in orientation within the vector. In other words, the exposure of the vector to the lambda integrase enzyme, under proper conditions for actuation of the enzyme, results in the complete reversal and orientation of all the DNA placed between base pairs 6087 and 6668 of the Janus vector described above. Between those base pairs is a Sma I cloning site (at base pairs 6655). The Sma I site is plasmid unique. Thus any DNA. incorporated into the Janus vector at the Sma I site will be located within the region which is inverted when the site specific recombination event occurs utilizing this vector.

Detailed Description Text (32):

Similarly, at base pairs 6713 to 6728 of the Janus vector is a sequence which is complimentary to the sequence of a commercially available primer, known as a "-40 primer" that an also be used to initiate single-stranded DNA polymerization on the template of the Janus vector. This primer can be used to initiate sequence elongation of inserts into the Janus vector before the recombination event triggered by the lambda integrase enzyme.

Detailed Description Text (33):

The position of the Sma I cloning site is that 6655, conveniently located between the two primers and also appropriately located between the two sites of the site specific integration events. There is an Eco RI site at 6687, but this is not

suitable for sequence cloning because the DNA cloned into that site would not be inverted by the <u>lambda integrase</u>, since the site is outside of the cross-over site for the integrase mediated recombination process. Within the Janus nucleotide sequence, base pairs 6631 through 7125, represent the coding region for the alpha complementing region of beta galactosidase. The interruption by insertion of this coding region is responsible for the blue plaque test used to test for insertions into other M13 vectors. This test continues to work for the Janus vector as described herein through use of the exact same technique.

Detailed Description Text (38):

To utilize the Janus vector in a cloning operation, from a 20 kilobase DNA insert, a random library can be created by sonication of the DNA to result in fragments of between 700 and 2300 base pairs in length. From such random fragments, 300 separate fragments are cloned into the Janus vector and can be cloned and replicated to create single-stranded DNA for sequencing. By sequencing all of the fragments contained in the 300 clones, approximately five-fold coverage of the entire 20,000 base pair segment can be statistically achieved. The sequences can then be assembled by computer. Both experience and computer simulation has indicated that at this level of over-sequencing a few gaps will still remain. To close those gaps and provide the desired level of redundant sequencing for each of the gaps, a subset of about 100 of the clones is selected for inversion. This subset is chosen from the 300 clones to include those clones which are adjacent to the remaining gaps, and to cover those regions which have been sequenced less than four times or regions which have been sequenced only on one strand, or sequences which have significant ambiguities in the consensus sequence so far obtained. These clones are then subjected to an inversion operation by exposing the plasmid clones to the lambda integrase protein. This can be done by in vitro exposure to integrase, or by removing the Janus vectors with the included sequences and then transfecting into integrase competent E.coli host (i.e. JM101 with pH53-1). The 100 clones thus selected will create single-stranded DNA for the selected 100 fragments, but each of the fragments will provide data from the opposite strand of the origin DNA and the sequences will begin at the opposite end of each fragment. Thus strong data is provided for the weak points left by the initial random screening approach. Three-fold additional sequencing from this covering set has been determined by computer model to provide more than an ample high probability of closing all the gaps in each strand, and then building up the minimum four fold redundancy at each point on the sequence. Since by this process seven to eight fold redundancy will have been achieved on average for each base sequence, the need to reach that primary data would be limited to a very few specific problem areas.

CLAIMS:

- 19. A method as claimed in claim 14 wherein the vector includes as its recombination recognition sites the attP and attB sites of lambda phage, and wherein step (e) comprises exposing the vectors to $\underline{lambda\ integrase}$ enzyme to catalyze the site specific recombination event.
- 20. A method as claimed in claim 19 wherein the exposure of the vectors to the lambda integrase enzyme is done by transfecting the vectors into a bacterial host having lambda integrase enzyme therein.
- 21. A method as claimed in claim 19 wherein the exposure of the vectors to the lambda integrase enzyme is done by exposing the vectors to the lambda integrase enzyme in vitro.



Day: Tuesday Date: 4/29/2003 Time: 19:12:05

Inventor Name Search Result

Your Search was:

Last Name = OW

First Name = DAVID

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|--------------|---------------|--------|------------|--|--------------------|
| 60443804 | Not Issued | 020 | 01/29/2003 | DEVICE FOR MEASURING DEVIATIONS FROM FLATNESS AND SURFACE TOPOLOGY OF A PATTERNED SEMICONDUCTOR WAFER SURFACE USING A INTERFEROMETER FOR PROCESS CONTROL OF CHEMICAL MECHANICAL POLISHING DURING SEMICONDUCTOR AND OPTO-ELECTRONIC MANUFACTURING | OWEN, DAVID |
| 60443329 | Not Issued | 020 | 01/28/2003 | DEVICE FOR MEASURING THE SURFACE SLOPE, SURFACE CURVATURE AND STRESS OF PATTERNED SILICON WAFERS USING AN INTERFEROMETRIC TECHNIQUE THAT EVALUATES THE BACKSIDE SURFACE OF THE WAFER | OWEN, DAVID |
| 60405434 | Not Issued | 019 | 08/22/2002 | METHOD AND SYSTEM FOR INTEGRATING ENTERPRISE SOFTWARE APPLICATIONS WITH DESKTOP SOFTWARE APPLICATIONS | OWENS, DAVID H. |
| 60220062 | Not Issued | 020 | 07/21/2000 | GENE INSERTION AND REPLACEMENT IN EUKARYOTIC ØELLS | OW, DAVID W. |
| 60200605 | Not Issued | 159 | 04/28/2000 | ORGANOPHOTORECEPTORS FOR ELECTROPHOTOGRAPHY FEATURING ELECTRON TRANSPORT COMPOUNDS | OWEN, DAVID J. |
| 60200475 | Not Issued | 159 | 04/28/2000 | ORGANOPHOTORECEPTORS FOR ELECTRONPHOTOGRAPHY | OWEN, DAVID J. |

| | | | | FEATURING ELECTRON | - |
|---|---------------|-----|------------|---|--------------------------|
| 29149643 | D464978 | 150 | 10/12/2001 | TRANSPORT COMPOUNDS BOOM AND ATTACHMENT | OWENS, |
| ======================================= | | | | MOUNTING PLATE | DAVID A. |
| 29149633 | D466135 | 150 | 10/12/2001 | FRAME FOR A WHEELED WORK MACHINE | OWENS, DAVID A. |
| 29149591 | Not Issued | 093 | 10/12/2001 | CAB FOR A WHEELED WORK MACHINE | OWENS, DAVID A. |
| 10344619 | Not Issued | 019 | 01/01/0001 | BICYCLIC HETEROAROMATIC DERIVATIVES FOR THE TREATMENT OF IMMUNE AND INFLAMMATORY DISORDERS | OWEN, DAVID ALAN |
| 10343135 | Not Issued | 019 | 01/01/0001 | SIGNAL MEASUREMENT | OWEN, DAVID PAUL |
| 10313060 | Not Issued | 020 | 12/06/2002 | PATCH-CLAMPING METHOD AND APPARATUS/ | OWEN, DAVID GERAINT |
| 10262810 | Not Issued | 030 | 10/01/2002 | METHOD AND SYSTEM FOR INTEGRATING ENTERPRISE SOFTWARE APPLICATIONS WITH DESKTOP SOFTWARE APPLICATIONS | OWENS, DAVID H. |
| 10236637 | Not Issued | 041 | 09/06/2002 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES | OWEN, DAVID ALAN |
| 10230932 | Not Issued | 041 | 08/29/2002 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES | OWEN, DAVID ALAN |
| 10147574 | Not Issued | 030 | 05/16/2002 | APPARATUS AND METHOD FOR VALIDATING A DATABASE RECORD BEFORE APPLYING JOURNAL DATA | OWEN, DAVID FINIAN |
| 10074889 | Not Issued | 030 | 10/29/2001 | METHOD AND APPARATUS FOR DATA RECOVERY OPTIMIZATION IN A LOGICALLY PARTITIONED COMPUTER SYSTEM | OWEN, DAVID FINIAN |
| 10032796 | Not Issued | 030 | 12/26/2001 | FORMS AUDITING SYSTEMS AND METHODS | OWEN, DAVID A. |
| 10011031 | Not Issued | 095 | 11/13/2001 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES HAVING MMP AND THE INHIBITORY ACTIVITY | OWEN, DAVID |
| 09980235 | Not Issued | 030 | 03/29/2002 | SCREENS | OWEN, DAVID LLEWELLEN |
| 09975171 | Not | 030 | 10/10/2001 | METHOD AND SYSTEM FOR | OWEN, DAVID |

| | Issued | | | PERFORMING MONEY TRANSFER TRANSACTIONS | A . |
|----------|---------------|-----|------------|--|------------------------|
| 09965083 | Not Issued | 030 | 09/26/2001 | ELECTRONIC ACKNOWLEDGMENT OF RECEIPT OF INVENTORY | OWEN, DAVID A. |
| 09911088 | Not Issued | 071 | 07/23/2001 | METHODS FOR THE REPLACEMENT, TRANSLOCATION AND STACKING OF DNA IN EUKARYOTIC GENOMES | OW, DAVID W. |
| 09862035 | Not Issued | 030 | 05/21/2001 | SELECTIVE MMP INHIBITORS HAVING REDUCED SIDE-EFFECTS | OWEN, DAVID ALAN |
| 09857456 | Not Issued | 030 | 09/24/2001 | INTERFACE PATCH CLAMPING | OWEN, DAVID GERAINT |
| 09855978 | 6469020 | 150 | 05/15/2001 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES | OWEN, DAVID ALAN |
| 09851608 | Not Issued | 161 | 05/09/2001 | ELECTRICAL POWER GENERATION SYSTEM FOR VEHICULAR BASED APPLICATIONS | OWENS, DAVID J. |
| 09830739 | Not Issued | 071 | 06/25/2001 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES HAVING MMP AND TNF INHIBITORY ACTIVITY | OWEN, DAVID ALAN |
| 09820094 | 6469788 | 150 | 03/27/2001 | COHERENT GRADIENT SENSING ELLIPSOMETER | OWEN, DAVID M. |
| 09806266 | 6462042 | 150 | 03/28/2001 | HYDROXAMIC ACID DERIVATIVES AS MATRIX METALLOPROTEINASE (MMP) INHIBITOR\$ | OWEN, DAVID ALAN |
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| 09790263 | 6455718 | 150 | 02/21/2001 | HALOGEN EXCHANGE REACTIONS IN PREPARING CATALYSTS AND THEIR PRECURSORS | OWENS, DAVID W. |
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| 09724101 | 6320511 | 150 | 11/28/2000 | ICE DETECTOR CONFIGURATION FOR IMPROVED ICE DETECTION AT NEAR FREEZING CONDITIONS | OWENS, DAVID G. |
| 09719236 | Not | 041 | 04/19/2001 | HIGH THROUGHPUT SCREEN | OWEN, DAVID |

| | Issued | | | | GERAINT |
|-----------------|---------------|-----|------------|---|-----------------------|
| 09649712 | Not Issued | 041 | 08/25/2000 | SYSTEM AND METHOD FOR MEASURING AND IMPROVING FEED YARD PRODUCTIVITY | OWEN, DAVID H. |
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| 09623669 | 6506764 | 150 | 09/06/2000 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES | OWEN, DAVID ALAN |
| 09622134 | 6503910 | 150 | 08/11/2000 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES | OWEN, DAVID ALAN |
| 09622017 | Not Issued | 161 | 08/10/2000 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES | OWEN, DAVID ALAN |
| 09620800 | Not Issued | 071 | 07/21/2000 | DNA RECOMBINATION IN EUKARYOTIC CELLS BY THE BACTERIOPHAGE PHIC31 RECOMBINATION SYSTEM | OW, DAVID W. |
| 09616520 | Not Issued | 160 | 07/14/2000 | PEPTIDYL COMPOUNDS HAVING MMP AND TNF INHIBITORY ACTIVITY | OWEN, DAVID ALAN |
| 09596146 | 6248265 | 150 | 06/16/2000 | CLEAN GENERATION OF A FLUOROARYL GRIGNARD REAGENT | OWENS, DAVID W. |
| 09570699 | 6508037 | 150 | 05/15/2000 | RAISED FLOORING SYSTEM & METHOD | OWEN, DAVID D. |
| 09564217 | 6310088 | 150 | 05/04/2000 | HYDROXAMIC AND CARBOXYLIC ACID DERIVATIVES HAVING MMP AND TNF INHIBITORY ACTIVITY | OWEN, DAVID ALAN |
| 09549478 | Not Issued | 041 | 04/14/2000 | SYSTEM AND PROCESS FOR SYNCHRONIZING DATA BETWEEN BROADCAST MEDIA AND THE INTERNET | OWEN, DAVID E. |
| 09546742 | 6464392 | 150 | 04/11/2000 | TACTICAL THERMAL LUMINESCENCE SENSOR FOR GROUND PATH CONTAMINATION DETECTION | OWENS, DAVID J. |
| 09523750 | Not Issued | 041 | 03/13/2000 | AUTOMATED QUEUE RECOVERY USING ELEMENT- BASED JOURNALING | OWEN, DAVID FINIAN |
| <u>09519645</u> | 6464137 | 150 | 03/06/2000 | DOCUMENT DISPENSING SYSTEM | OWENS, DAVID S. |

| 09457179 | Not Issued | 041 | | | OWENS, DAVID |
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